

SFQ ID NO:3; Alignment result 1. Database: PIR_76; Ac No: D70672

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: February 18, 2004, 14:12:09 ; Search time 6.5921 Seconds

Title: US-09-643-260-3

Perfect score: 26

Sequence: 1 LDASAL 6

Scoring table: BLASTM62

Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_76,*

1: pir1,*
2: pir2,*
3: pir3,*
4: pir4,*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Length DB ID Description

Result No.	Score	Query	Length	DB	ID	Description
1	26	100.0	84	2	D70672	hypothetical protein
2	26	100.0	129	2	T51200	hypothetical prote
3	26	100.0	130	2	F90278	hypothetical prote
4	26	100.0	171	2	F87628	hypothetical prote
5	26	100.0	230	2	E93326	AtrA transcription
6	26	100.0	259	2	F6311	conserved hypothet
7	26	100.0	281	2	C83635	hypothetical prote
8	26	100.0	334	2	TR7024	probable DNA-bind
9	26	100.0	383	2	H98297	hypothetical prote
10	26	100.0	394	2	H81807	conserved hypothet
11	26	100.0	394	2	B81062	conserved hypothet
12	26	100.0	437	2	A70587	hypothetical prote
13	26	100.0	483	2	AH3265	aspartate ammonia-
14	26	100.0	512	2	H81847	hypothetical prote
15	26	100.0	513	2	A98265	hypothetical prote
16	26	100.0	513	2	AH019	sigma 54 dependent
17	26	100.0	516	2	E81092	hypothetical prote
18	26	100.0	550	2	H70772	probable args prot
19	26	100.0	586	2	T49210	hypothetical prote
20	26	100.0	638	2	I39196	amiloride sensitiv
21	26	100.0	855	2	T41336	probable nitrogen
22	26	894	2			leucyl-tRNA synth
23	26	100.0	920	2	I46614	surface array prot
24	26	100.0	1006	2	T41439	putitive sulfate r
25	26	100.0	1313	1	JC0338	peptidyl-dipeptida
26	26	92.3	584	2	S55558	allophycocyanin be
27	24	92.3	137	2	C708B2	hypothetical prote
28	24	92.3	166	2	AC1949	purine-binding che
29	24	92.3	179	2	B96989	probable membrane

ALIGNMENTS

RESULT 1	D70672	hypothetical protein Rv2975c - <i>Mycobacterium tuberculosis</i> (strain H37RV)
C:Species:	Mycobacterium tuberculosis	
C:Date:	17-Jul-1998	#sequence_revision 17-Jul-1998 #text_change 22-Oct-1999
C:Accession:	D70672	
R:Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Charhner, C.; Harris, D.; Gord		
R:Connor, R.; Davies, R.; Devlin, K.; Fellwell, T.; Gentles, S.; Hamlin, N.; Holroy		
R:Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Shelton, S.; Squares, S.		
Nature 393, 537-544, 1998		
A:Authors:	Squires, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G.	
A:Title:	Deciphering the biology of <i>Mycobacterium tuberculosis</i> from the complete ge	
A:Reference number:	A70500; MUID:98295987; PMID:9634230	
A:Accession:	D70672	
A:Status:	preliminary; nucleic acid sequence not shown; translation not shown	
A:Molecule type:	DNA	
A:Residues:	1-84 <DNA>	
A:Cross-references:	GB:283018; GB:ALL23456; NIDB:93261671; PIDN:CAEB05437.1; PID:e283	
A:Experimental source:	strain H37RV	
C:Genetics:		
A:Gene:	Rv2975c	
RESULT 2		
Q:Match	100.0%	Score 26; DB 2; Length 84;
Best Local Similarity	100.0%	Score 26; DB 2; Length 84;
Matches	6	Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1	LDASAL 6
DB	8	LDASAL 13

Query Match Similarity 100.0%; Score 26; DB 2; Length 84;
 Best Local Similarity 100.0%; Score 26; DB 2; Length 84;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 DB 8 LDASAL 13

hypothetical protein 633 - *Sphingomonas aromaticivorans* plN11

C:Species: *Sphingomonas aromaticivorans*

C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 11-Jan-2000

C:Accession: TI2200

R:Romine, M.F.; Stillwell, L.C.; Wong, K.K.; Thurston, S.J.; Sisk, E.C.; Sassen, C

R:Submitted to the EMBL Data Library July 1998

A:Description: Complete sequence of a 184 kb catabolic plasmid from *Sphingomonas* a

A:Reference number: 220992

A:Accession: TI1200

A:Status: preliminary; translated from GB/EMBL/DDBJ

A:Molecule type: DNA

A:Residues: 1-129 <ROM>

A:Cross-references: EMBL:AF079317; NID:93378261; PID:93378341; PIDN:AAD03924.1

C:Genetics:

A:Genome: Plasmid pN11

A>Note: orf633

Query Match Similarity 100.0%; Score 26; DB 2; Length 129;

PA (UYYA) UNIV YALE.
 XX
 PI May MJ, Ghosh S;
 XX
 DR WPI; 2002-179350/23.
 PT Modulating NF-kappaB induction in a cell, useful for treating e.g.
 PT inflammatory disorders, osteoporosis and cancer, comprises contacting a
 PT cell with an anti-inflammatory compound comprising at least one NEMO
 PT binding domain -
 XX
 PS Claim 23; Page 44; 82pp; English.
 XX
 CC The invention relates to modulating NF-kappaB (NF- κ B) induction in a cell
 CC comprises contacting a cell with an anti-inflammatory compound
 CC (ABB725-ABB8742), comprising at least one NEMO binding domain
 CC (ABB7312). The compound has acts through selective inhibition of
 CC cytokine-mediated NF- κ B activation by blocking the interaction of NEMO
 CC with IKK β at the NEMO binding domain. Blockage of IKK β -NEMO
 CC interaction results in inhibition of IKK β kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compound may also
 CC act (directly or indirectly) by blocking the recruitment of leukocytes
 CC into sites of acute and chronic inflammation, by down-regulating the
 CC expression of E-selectin on leukocytes or by blocking osteoclast
 CC differentiation. The compound is useful in treating NF- κ B mediated
 CC conditions, where the condition is an inflammatory disorder, an
 CC autoimmune disease, transplant rejection, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, a viral infection or ataxia,
 CC telangiectasia. The inflammatory disorder is asthma, allergies,
 CC urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis,
 CC rheumatoid arthritis, osteoarthritis, psoriatic arthritis, inflammatory
 CC bowel disease, chronic obstructive pulmonary disease, vasculitis and
 CC burstsitis. The inflammatory disorder may also be dermatitis, eczema,
 CC spondyloarthritis, psoriasis, psoriatic arthritis, lupus and
 CC polymyalgia, scleroderma, Wegener's granulomatosis, temporal arteritis,
 CC cryoglobulinaemia or multiple sclerosis. For chronic viral infections
 CC caused by Epstein-Barr, cytomegalovirus or herpes simplex. Other viral
 CC diseases include HIV and influenza. The compound may also be useful for
 CC treating anaphylaxis, drug and food sensitivity, contact dermatitis,
 CC sunburn or aging. The compound may be used to replace corticosteroids in
 CC any application in which corticosteroids are used, including
 CC immunosuppression in transplants and cancer therapy. Also for identifying
 CC antiinflammatory compounds and for diagnosis of an inflammatory disorder.
 CC The compound may be administered alone or in combination with other known
 CC anti-inflammatory agents. The present sequence is that of the NEMO
 CC binding domain of IKK β .
 SQ Sequence 6 AA;

Query Match	100.0%	Score	40;	DB	23;	Length	6;
Best Local Similarity	100.0%	Pred.	No.	9.3e+05;			
Matches	6;	Conservative	0;	Mismatches	0;	Indels	0;
				Gaps	0;		

Qy 1 LDWSWL 6
 Db 1 LDWSWL 6

RESULT 2
 ID AAM48530
 ID AAM48530 standard; Peptide; 6 AA.
 AC AAM48530;
 AC
 DT 20-MAR-2002 (first entry)

XX
 DE Anti-inflammatory peptide SEQ ID NO 33.
 XX
 KW Antinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antiarthritic; antiarrhythmic; osteopathic; antibacterial; viricide;
 KW immunosuppressive; dermatological; neuroprotective; antithrombotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;

XX
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 OS Synthetic.
 XX
 PN WO200183554-A2.
 XX
 PD 08-NOV-2001.
 XX
 PF 02-MAY-2001; 2001WO-US14346.
 XX
 PR 02-MAY-2-2000; 2000US-201261P.
 PR 22-AUG-2-2000; 2000US-0642260.
 XX
 PA (PRAE-) PRACIS PHARM INC.
 PA (UYYA) UNIV YALE.
 XX
 PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX
 DR WPI; 2002-121889/16.
 XX
 PT Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -
 XX
 PS Claim 6; Page 61; 82pp; English.
 XX
 CC The invention relates to an antiinflammatory compound (especially
 CC AAM48688-AAM48645), comprising a membrane translocation domain
 CC (AAM48620-AAM48627) or AAM48645-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48225-AAM48619). The antiinflammatory compounds have antiasthmatic,
 CC cyrostatic, antipsoriatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC nontropic, antiatherosclerotic, viricide, anti-allergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKK β) at
 CC the NEMO binding domain that results in inhibition of IKK β kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis; autoimmune diseases such as lupus, polymyalgia, scleoderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia,
 CC telangiectasia. The compounds are also useful for treating
 CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 XX
 SQ Sequence 6 AA;

Query Match	100.0%	Score	40;	DB	23;	Length	6;
Best Local Similarity	100.0%	Pred.	No.	9.3e-05;			
Matches	6;	Conservative	0;	Mismatches	0;	Indels	0;
				Gaps	0;		

Qy 1 LDWSWL 6
 Db 1 LDWSWL 6

RESULT 3
 ID AAM48655
 ID AAM48655 standard; Peptide; 6 AA.
 AC AAM48655;
 XX
 DT 20-MAR-2002 (first entry)

XX NBD mutant peptide SEQ ID NO 2.
 XX Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteoprotective; antibiotic; viricide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW anti-allergic; membrane translocation domain; NEMO binding domain; eczema;
 KW rheumatoid; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW osteoporosis; Alzheimer's disease; ataxia; telangiectasia; allergy; anaphylaxis;
 KW cytokine; NFkappaB; IkappaB kinase beta; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia; telangiectasia; allergy; anaphylaxis; arthritis.
 OS Synthetic.
 XX WO20013554-A2.
 XX PD 08-NOV-2001.
 XX PF 03-MAY-2001; 2001WO-US14346.
 XX PR 03-MAY-2000; 2000US-201261P.
 XX PR 22-AUG-2000; 2000US-0643260.
 XX PA (PRAE-) PRAEIS PHARM INC.
 XX PA (UNIV YALE).
 XX PA (UNIV YALE).
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.
 XX PT Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -
 XX PS Example 6; Page 47; 88PP; English.
 XX The invention relates to an antiinflammatory compound (especially
 CC comprising a membrane translocation domain which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AM48520-AM48645), the antiinflammatory compounds have antiasthmatic,
 CC cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC notropic, antiatherosclerotic, viricide and anti-allergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IkappaB kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation, cancer, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, granulomas, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC telangiectasia. The compounds are also useful for treating allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 Sequence 6 AA;
 SQ

Query Match 100.0%; Score 40; DB 23; Length 6;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 4
ABU08418

RESULT 4
ABU08418

ID AAM48534 standard; peptide; 7 AA.
 XX
 AC AAM48534;
 XX DT 20-MAR-2002 (first entry)
 XX DE Anti-inflammatory peptide SEQ ID NO 37.
 XX KW Antiinflammatory; antiasthmatic; cyostatic; antipsoriatic; nootropic;
 KW antiarthritic; osteoprotective; antiinfective; antiatherosclerotic;
 KW immunosuppressive; dermatological; neuroprotective; antiinflammatory;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia; telangiectasia; allergy; anaphylaxis; arthritis.
 XX OS Synthetic.
 PN WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PR 02-MAY-2001; 2001WO-US14346.
 XX PR 02-MAY-2000; 2000US-201261P.
 XX PR 22-AUG-2000; 2000US-0643260.
 XX PA (PRAE-) PRACTIS PHARM INC.
 XX PA (UYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.
 XX PS Claim 6; Page 61; 88pp; English.
 XX PT Novel antiinflammatory compound comprising membrane translocation
 CC domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -
 XX PS Amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic,
 CC cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteoprotective,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC notropic, antiatherosclerotic, viral, and anti-allergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 XX Sequence 7 AA;

Query Match Similarity 100.0%; Score 40; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9; Je+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

1

LDWSWL

6

Db 1 ||||| LDWSWL 6
 RESULT 6
 ID AAM48527
 ID AAM48527 standard; Peptide; 8 AA.
 XX AC AAM48527;
 XX DT 20-MAR-2002 (first entry)
 XX DE Anti-inflammatory Peptide SEQ ID NO 30.
 XX KW Antiinflammatory; antiasthmatic; cyostatic; antipsoriatic; nootropic;
 KW antiarthritic; osteoprotective; antiinfective; antiatherosclerotic;
 KW immunosuppressive; dermatological; neuroprotective; antiinflammatory;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia; telangiectasia; allergy; anaphylaxis; arthritis.
 XX OS Synthetic.
 PN WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PR 02-MAY-2001; 2001WO-US14346.
 XX PR 02-MAY-2000; 2000US-201261P.
 XX PR 22-AUG-2000; 2000US-0643260.
 XX PA (PRAE-) PRACTIS PHARM INC.
 XX PA (UYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.
 XX PS Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -
 XX PS Amino acid residues, fused to a NEMO binding sequence
 CC (AAM48520-AAM48627 or AAM48646-AAM4851) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic,
 CC cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteoprotective,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC notropic, antiatherosclerotic, viral, and anti-allergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 XX Sequence 8 AA;

Query Match Similarity 100.0%; Score 40; DB 23; Length 8;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0;
 Matches 6; Conservative 0; Indels 0; Gaps 0;

Qy	1 LDWSML 6	XX	Sequence 8 AA;
Db	3 LDWSML 8	XX	Query Match Similarity 100.0%; Score 40; DB 23; Length 8; Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Matches 6; Conservative 0; Indels 0; Gaps 0;

RESULT 7
 ID AAM48535
 XX AAM48535 standard; Peptide; 8 AA.
 AC AAM48535;
 XX DT 20-MAR-2002 (first entry)
 XX DE Anti-inflammatory peptide SEQ ID NO 38.
 XX KW Antirheumatic; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antiinflammatory; antiasthmatic; osteoprotic; antibacterial; vincide;
 KW immunosuppressive; antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NIKappaB; Ikkappa kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoïd arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX OS Synthetic.
 XX PN WO200135554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US14346.
 XX PR 02-MAY-2000; 2000US-201261P.
 XX PR 22-AUG-2000; 2000US-0543260.
 XX PA (PRAE-) PRECIS PHARM INC.
 XX PA (TUYA-) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K,
 XX DR WPI; 2002-121889/16.
 XX PT Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappa B activation, and for treating asthma, lung inflammation, psoriasis
 XX PS Claim 6; Page 61; 88pp; English.
 The invention relates to an antiinflammatory compound (especially CC
 CC APM48628-APM8645), comprising a membrane translocation domain CC
 CC (AM48620-AM48627, or AM48646-AM48651) which comprises from 6-15 CC
 amino acid residues, fused to a NEMO binding sequence CC
 (AM4525-AM4619). The antiinflammatory compounds have antiasthmatic, CC
 cytostatic, antipsoriatic, antiarthritic, osteoprotic, CC
 antibacterial, immunosuppressive, dermatological, neuroprotective, CC
 nocropic, antiatherosclerotic virucidal and antiallergic activity. The CC
 compounds act as selective inhibitors of cytokine-mediated NIKappaB CC
 activation by blocking interaction of IkkappaB kinase beta (IKKbeta) at CC
 the NEMO binding domain that results in inhibition of IkkappaB kinase CC
 activation and subsequent decreased phosphorylation of IkkappaB. The CC
 compounds are useful for treating inflammatory disorders, e.g. asthma, CC
 lung inflammation or cancer, psoriasis, rheumatoid arthritis, CC
 osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, CC
 burritis; autoimmune diseases such as lupus, polymyalgia, scleroderma, CC
 granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; CC
 Alzheimer's disease; atherosclerosis; viral infections; and ataxia

RESULT 8
 ID AAW96182
 XX AAW96182 standard; peptide; 9 AA.
 AC AAW96182;
 XX DT 27-APR-1999 (first entry)
 XX DE IKK-alpha polypeptide with binding activity.
 XX PR 1-kappa-B kinase; IKK-alpha; gene expression; modulation;
 KW suppression; activation; tumor necrosis factor; TNF; interleukin-1;
 KW IL-1; TNF receptor associated factor; RAF.
 XX OS Homo sapiens.
 XX PN WO9901541-A1.
 XX PD 14-JAN-1999.
 XX PR 01-JUL-1998; 98WO-US13782.
 XX PR 10-JUL-1997; 97US-0890854.
 PR 01-JUL-1997; 97US-0887115.
 XX PA (TULA-) TULARIK INC.
 XX PT Cao Z, Regnier C, Rothe M;
 XX DR WPI; 1999-106044/09.
 XX PT Newly isolated human kinase IkkappaB kinase (IKK-^a) polypeptides
 PT useful in screening for agents that modulate the interaction of an
 PT IKK polypeptide to a binding target and for modulating signal
 PT transduction involving IkkappaB in a cell
 XX PS Disclosure; Page -; 32pp; English.
 I-kappa-B kinase (AAW96182), deletion mutants of it retaining
 CC I-kappa-B kinase activity and I-kappa-B polypeptides (comprising a
 CC six residue domain of I-kappa-B containing one of Ser32 and Ser36,
 CC and a candidate agent) can be used to screen for agents that
 CC modulate the interaction of an IKK polypeptide to a binding target.
 CC The modulation of the kinase activity of IKK-alpha forms a method
 CC for modulating signal transduction involving I-kappa-B in a cell.
 CC The IKK-alpha polypeptides are useful for generating oligonucleotide
 CC primers and probes for use in the isolation of natural
 CC IKK-alpha-encoding nucleic acids. The nucleic acids are useful as
 CC translatable transcripts, hybridization probes, polymerase chain
 CC reaction (PCR) probes and primers. Their diagnostic applications
 CC include IKK-alpha hybridization probes for identifying wild-type and
 CC mutant IKK-alpha alleles in clinical and laboratory samples.
 CC Therapeutic application includes the use of IKK-alpha nucleic acids
 CC for modulating cellular expression or intracellular
 CC concentration/availability of active IKK-alpha.
 CC Catalytically inactive IKK-alpha mutants suppress NF-kappa-B
 CC activation induced by tissue necrosis factor (TNF), interleukin-1

(IL-1) stimulation, TNF receptor-associated factor (TRAF) and Np-kappa-B-binding kinase (NIK) overexpression. Polypeptides of IKK-alpha showing exemplary binding activity are described in AAW96165-W6182. These peptides all comprise one of Cys30, Glu543, Ieu604, Thr679, Ser680, Pro684, Thr686 or Ser687 of the full length IKK-alpha described in AAW96157. Deletion mutants of the invention comprise at least one of these regions. N.B. The present sequence is not given in the present specification but is derived from the sequence given in AAW96157 as specified.

CC
CC Np-kappa-B-binding kinase (NIK) overexpression. Polypeptides of
CC IKK-alpha showing exemplary binding activity are described in
CC AAW96165-W6182. These peptides all comprise one of Cys30, Glu543,
CC Ieu604, Thr679, Ser680, Pro684, Thr686 or Ser687 of the full length
CC IKK-alpha described in AAW96157. Deletion mutants of the invention
CC comprise at least one of these regions.
CC N.B. The present sequence is not given in the present specification
CC but is derived from the sequence given in AAW96157 as specified.
XX
SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 20; Length 9;
Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 6; Conservative 0; MisMatches 0;

QY 1 LDWSWL 6
ID |||||
DB 2 LDWSWL 7

RESULT 9

AM48526
ID AM48526 standard; Peptide: 9 AA.

AC AM48526;
XX

DT 20-MAR-2002 (first entry)

XX
DE Anti-inflammatory peptide SEQ ID NO 29.

XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antiinflammatory; antiasthmatic; cytostatic; antibacterial; viricide;

KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;

KW cytokine; NfkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;

KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;

KW autoimmune disorder; multiple sclerosis; transplant rejection;

KW ataxia; telangiectasia; allergy; anaphylaxis; arthritis;

KW synthetic.

PN WO200183554-A2.

XX
PD 08-NOV-2001.

XX
PP 02-MAY-2001; 2001WO-US14346.

XX
PR 02-MAY-2000; 2000US-201261P.

PR 22-AUG-2000; 2000US-0643260.

XX
PA (PRAE-) PRAECIS PHARM INC.

PA (UYIA) UNIV YALE.

PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX
DR WPI; 2002-121889/16.

XX
PT Novel antiinflammatory compound comprising membrane translocation
PT domain fused to NEMO binding sequence, useful for blocking nuclear
PT factor kappaB activation, and for treating asthma, lung inflammation,
PT psoriasis -

XX
PS Claim 6; Page 61; 88pp; English.

The invention relates to an antiinflammatory compound (especially
CC
CC AAW4828-W48645), comprising a membrane translocation domain
CC (AM48620-AM48627 or AM4866-AM48631) which comprises from 6-15
CC amino acid residues, fused to a NEMO binding sequence
CC (AM48525-AM48619). The antiinflammatory compounds have antiasthmatic,
CC cytostatic, antipsoriatic, antiinflammatory, antirheumatic, osteopathic,
CC antibacterial, immunosuppressive, dermatological, neuroprotective,

nootropic, antiatherosclerotic, virucide and antiallergic activity. The

CC compounds act as selective inhibitors of cytokine-mediated NfkappaB
CC activation by blocking interaction of NEMO binding domain that results in inhibition of IKKbeta kinase.

CC activation and subsequent decreased phosphorylation of NEMO. The
CC compounds are useful for treating inflammatory disorders, e.g. asthma,
CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
CC buritis, autoimmune diseases such as lupus, polymyalgia, scleroderma,
CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;

CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia,
CC telangiectasia. The compounds are also useful for treating
CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
CC arthritis.

XX
SQ Sequence 9 AA;
XX
CC

Query Match 100.0%; Score 40; DB 23; Length 9;
Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;
Matches 6; Conservative 0; MisMatches 0;

QY 1 LDWSWL 6
ID |||||
DB 1 LDWSWL 6

RESULT 10

AM48529

ID AM48529 standard; Peptide: 9 AA.

AC AM48529;
XX

DT 20-MAR-2002 (first entry)

XX
DE Anti-inflammatory Peptide SEQ ID NO 32.

XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antiinflammatory; antiarthritic; osteopathic; antibacterial; viricide;

KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;

KW cytokine; NfkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;

KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;

KW autoimmune disorder; multiple sclerosis; transplant rejection;

KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;

KW ataxia; telangiectasia; allergy; anaphylaxis; arthritis;

KW synthetic.

PN WO200183554-A2.

XX
PD 08-NOV-2001.

XX
PP 02-MAY-2001; 2001WO-US14346.

XX
PR 02-MAY-2000; 2000US-201261P.

PR 22-AUG-2000; 2000US-0643260.

XX
PA (PRAE-) PRAECIS PHARM INC.

PA (UYIA) UNIV YALE.

PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX
DR WPI; 2002-121889/16.

XX
PT Novel antiinflammatory compound comprising membrane translocation
PT domain fused to NEMO binding sequence, useful for blocking nuclear
PT factor kappaB activation, and for treating asthma, lung inflammation,
PT psoriasis -

XX
PS Claim 6; Page 61; 88pp; English.

The invention relates to an antiinflammatory compound (especially

PT	racitor kappaB activation, and 101 treating asthma, lung
XX	psoriasis -
PS	Claim 6; Page 61; 88pp; English.
CC	The invention relates to an antiinflammatory compound (especially
CC	(AM48528-AM48545), comprising a membrane translocation domain from 6-15
CC	amino acid residues, fused to a NEMO binding sequence
CC	(AM48525-AM48519). The antiinflammatory compounds have antiasthmatic,
CC	cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
CC	antibacterial, immunosuppressive, dermatological, neuroprotective,
CC	nootropic, antiatherosclerotic, virucide and antiallergic activity. The
CC	compounds act as selective inhibitors of cytokine-mediated NFkappaB
CC	activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
CC	the NEMO binding domain that results in inhibition of IKappaB kinase
CC	activation and subsequent decreased phosphorylation of IkappaB. The
CC	compounds are useful for treating inflammatory disorders, e.g. asthma,
CC	lung inflammation or cancer, psoriasis, rheumatoid arthritis,
CC	osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
CC	bursts; autoimmune diseases such as lupus, polymyalgia, scleroderma,
CC	granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
CC	Alzheimer's disease; atherosclerosis; viral infections; and ataxia
CC	telangiectasia. The compounds are also useful for treating
CC	pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
CC	drug or food sensitivity, eczema, dermatitis, sunburn, aging and
CC	arthritis.
SQ	Sequence 9 AA;
Qy	Query Match 100.0%; Score 40; DB 23; Length 9;
Db	Best Local Similarity 100.0%; Pred. No. 9.3e+05; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RESULT 11	Query Match 100.0%; Score 40; DB 23; Length 9;
DT	Best Local Similarity 100.0%; Pred. No. 9.3e+05; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DE	Anti-inflammatory peptide SEQ ID NO 35.
ID	AM48532 standard; Peptide; 9 AA.
XX	AM48532;
AC	AC
XX	DT 20-MAR-2002 (first entry)
XX	Anti-inflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
XX	antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
XX	immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
XX	antiallergic; membrane translocation domain; NEMO binding domain; eczema;
XX	cycokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
XX	rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
XX	autoimmune disorder; multiple sclerosis; transplant rejection;
XX	osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
XX	ataxia; telangiectasia; allergy; anaphylaxis; arthritis;
OS	Synthetic.
XX	WO200183554-A2.
PN	WO200183554-A2.
XX	08-NOV-2001.
PP	02-MAY-2001; 2000US-201261P.
PR	02-MAY-2000; 2000US-0643260.
XX	(PRAE-) PRACTIS PHARM INC.
PA	(UYIA) UNIV YALE.
PI	May MJ, Ghosh S, Findelis MA, Phillips K;
XX	WPI ; 2002-121889/16.
DR	Novel antiinflammatory compound comprising membrane translocation
PT	domain fused to NEMO binding sequence, useful for blocking nuclear

PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.

XX PT Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation, and for treating asthma, lung inflammation, psoriasis -

XX PS Claim 6; Page 61; 88pp; English.

CC The invention relates to an antiinflammatory compound (especially AM48622-AM48645), comprising a membrane translocation domain (AM48620-AM48627 or AM48646-AM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence

CC (AM48525-AM48619). The antiinflammatory compounds have antiasthmatic, cytosolic, antipsoriatic, antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, motropic, antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by blocking interaction of IkappaB kinase beta (IkappaB_{eta}) at the NEMO binding domain that results in inhibition of IkappaB_{eta} activation and subsequent decreased phosphorylation of IkappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, sclerodema, Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

XX SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 23; Length 9;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDWSWL 6
 ID |||||
 Db 2 LDWSWL 7

RESULT 13
 ABB77313
 ID ABB77313 standard; peptide; 10 AA.
 XX AC ABB77313;
 XX DT 14-JUN-2002 (first entry)
 XX DE IKKbeta NEMO binding domain peptide SEQ ID NO 1.

XX KW IKKbeat; IKKalpha; NEMO; NEMO binding domain; NBD; NF-kappaB; NF-kB; kinase activation; leukocyte; inflammation; B-selectin; osteoclast; autoimmune disease; transplant rejection; osteoporosis; cancer; Alzheimer's disease; viral; infection; asthma; anaphylaxis; psoriasis; rheumatoid arthritis; Crohn's disease; multiple sclerosis; HIV; corticosteroid; immunosuppression; antiinflammatory; immunosuppressive; osteopathic; cytosolic; motropic; neuroprotective; anti-HIV; human; antiarteriosclerotic; virucide; antiasthmatic; antiallergic; dermatological; antibacterial; antiisoriatric; antineumatic; antiarthritic; osteopathic; antiulcer; Homo sapiens.

XX OS AAM48528
 ID AAM48528 standard; Peptide; 10 AA.
 XX AC AAM48528;
 XX DB 3 LDWSWL 8

RESULT 14
 AAM48528
 ID AAM48528 standard; Peptide; 10 AA.
 XX AC AAM48528;
 XX DB 3 LDWSWL 8

XX PR 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 XX PA (UYA) UNIV YALE.
 XX PI May MJ, Ghosh S;
 XX DR WPI; 2002-179350/23.

XX PT Modulating NF-kappaB induction in a cell, useful for treating e.g. inflammatory disorders, osteoporosis and cancer; comprises contacting a cell with an anti-inflammatory compound comprising at least one NEMO binding domain -

XX PS Example 4; Page -; 82pp; English.

CC The invention relates to modulating NF-kappaB (NF- κ B) induction in a cell comprises contacting a cell with an anti-inflammatory compound (AB08735-AB08742) comprising at least one NEMO binding domain (AB08735-AB08742). The compound has acts through selective inhibition of cytokine-mediated NF- κ B activation by blocking the interaction of NEMO with IKK α ta at the NEMO binding domain. Blockage of IKK α ta-NEMO interaction results in inhibition of IKK α ta kinase activation and subsequent decreased phosphorylation of IkappaB. The compound may also act (directly or indirectly) by blocking the recruitment of Leukocytes into sites of acute and chronic inflammation, by down-regulating the expression of E-selectin on leukocytes or by blocking osteoclast differentiation. The compound is useful in treating NF- κ B mediated conditions, where the condition is an inflammatory disorder, an autoimmune disease, transplant rejection, osteoporosis, cancer, Alzheimer's disease, atherosclerosis, a viral infection or ataxia telangiectasia. The inflammatory disorder is asthma, allergies, urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis, rheumatoid arthritis, osteoarthritis, psoriatic arthritis, inflammatory bowel disease, chronic obstructive pulmonary disease, vasculitis and bursitis. The inflammatory disorder may also be dermatitis, eczema, psoriasis, osteoarthritis, psoriatic arthritis, lupus, ulcerative colitis, spondyloarthritis. Also for Crohn's disease, temporal arteritis, polymyalgia, scleroderma or multiple sclerosis. For chronic viral infections caused by Epstein-barr, cytomegalovirus or herpes simplex. Other viral diseases include HIV and influenza. The compound may also be useful for treating anaphylaxis, drug and food sensitivity, contact dermatitis, sunburn or aging. The compound may be used to replace corticosteroids in any application in which corticosteroids are used, including for immunosuppression in transplants and cancer therapy. Also for identifying antiinflammatory compounds and for diagnosis of an inflammatory disorder. The compound may be administered alone or in combination with other known anti-inflammatory agents. The present sequence is that of the NEMO binding domain of IKK α ta. Note: The present sequence is not given in the specification but is encoded by the polynucleotide given at GenBank Accession No. AR067807, CC nucleotides 2203-2235.

XX SQ Sequence 10 AA;

Query Match 100.0%; Score 40; DB 23; Length 10;
 Best Local Similarity 100.0%; Pred. No. 3.9; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDWSWL 6
 ID |||||
 Db 3 LDWSWL 8

RESULT 14
 AAM48528
 ID AAM48528 standard; Peptide; 10 AA.
 XX AC AAM48528;
 XX DB 3 LDWSWL 8

XX PR 20-MAR-2002 (first entry)

XX DT 08-NOV-2001.
 XX PP 02-MAY-2001; 2001WO-US40654.

Query Match 100.0%; Score 40; DB 23; Length 10;
 Best Local Similarity 100.0%; Pred. No. 3.9; P. 0;
 Matches 6; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0; CC
 CC
 CC
 CC
 XX
 sequence 10 AA:
 SQ

REF ID: T

Wed Feb 18 17:21:25 2004

us-09-643-260-2.rag

Page 10

Qy	1	LDWSWL	6
Db	3	LDWSWL	8

Search completed: February 18, 2004, 14:26:17
Job time : 22.7763 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 18, 2004, 14:12:09 ; Search time 6.5921 Seconds
(without alignments)
87.531 Million cell updates/sec

Title: US-09-643-260-3

perfect score: 26

Sequence: 1 LDASAL 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : PIR_76:*

1: pir1:*
 2: pir2:*
 3: pir3:*
 4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	26	100.0	84✓2	D70672 hypothetical protein Rv2975c - Mycobacterium tuberculosis (strain H37RV)
2	26	100.0	129	T31200 C;Species: Mycobacterium tuberculosis
3	26	100.0	130	F92278 C;Date: 17-Jul-1998 #sequence_change 22-Oct-1999
4	26	100.0	171	F81628 C;Accession: D70672
5	26	100.0	230	E99326 R,Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; G;
6	26	100.0	259	F65311 Connor, R.; Davies, R.; Devlin, K.; Fellwell, T.; Gentles, S.; Hamlin, N.; Hol;
7	26	100.0	281	C83635 Rajardream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
8	26	100.0	334	T31024 Nature 393, 537-544, 1998
9	26	100.0	383	2 H9287 hypothetical protein Rv2975c - Mycobacterium tuberculosis (strain H37RV)
10	26	100.0	394	H80807
11	26	100.0	394	B81062
12	26	100.0	437	2 A70587
13	26	100.0	483	AH1265
14	26	100.0	512	H81847
15	26	100.0	513	2 A96655
16	26	100.0	513	2 AH019
17	26	100.0	516	2 E81092
18	26	100.0	550	2 H70772
19	26	100.0	586	2 T49310
20	26	100.0	638	2 I39196
21	26	100.0	855	2 T41336
22	26	100.0	894	2 G82200
23	25	100.0	920	2 I40614
24	26	100.0	1006	2 T41439
25	26	100.0	1313	1 JC0208
26	24	92.3	1313	✓2 S55558
27	24	92.3	157	2 C70882
28	24	92.3	166	2 AC1940
29	24	92.3	179	2 B96989

ALIGNMENTS

30	24	92.3	197	2 A64484 conserved hypothetical protein kinase (EC
31	24	92.3	279	2 A83986 hypothetical prote
32	24	92.3	292	2 A95163 hypothetical prote
33	24	92.3	292	2 H93028 hypothetical prote
34	24	92.3	294	2 T26946 protein kinase (EC
35	24	92.3	298	2 A41227 hypothetical prote
36	24	92.3	304	2 T42939 phosphoprotein phosphorylase (EC
37	24	92.3	325	2 T03995 protein kinase (EC
38	24	92.3	346	1 I78840 fructose-bisphosphate kinase (EC
39	24	92.3	359	1 ADECA fructose-bisphosphatase (EC
40	24	92.3	359	2 D91103 fructose-1,6-bisphosphate kinase (EC
41	24	92.3	359	2 AC0875 adenylylmethionine kinase (EC
42	24	92.3	384	2 G85548 alanine racemase (EC
43	24	92.3	393	2 S69191 dihydrodilipoamide S
44	24	92.3	401	2 AC2113 XUESD
45	24	92.3	405	1

	Matches	6;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	LDASAL	6							
Db	6	LDASAL	11							
RESULT 3										
F90278										
C;Species: Sulfolobus solfataricus										
C;Accession: F90278										
C;Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 24-May-2001										
R;She, Q.; Singh, R.K.; Confalonieri, F.; Zivanovic, Y.; Allard, G.; Awazy, M.J.; Chan-Jong, I.; Jeffries, A.C.; Koera, C.J.; Medina, N.; Peng, X.; Thi-Ngoc, H.P.; Redder, P.										
arrett, R.A.; Ragan, M.A.; Sensen, C.W.; Van der Oost, J.										
submitted to GenBank April 2001										
A;Description: Sulfolobus solfataricus complete genome.										
A;Reference number: A99139										
A;Accession: F90278										
A;Status: preliminary										
A;Molecule type: DNA										
A;Residues: 1-110 <KUR>										
A;Cross-references: GB:AE006641; NID:gi1381439; PIDN:AAK1485.1; GSPDB:GN00155										
C;Genetics:										
A;Gene: SS01243										
Qy	1	LDASAL	6							
Db	8	LDASAL	13							
RESULT 4										
F87628										
C;Species: Caulobacter crescentus										
C;Accession: F87628										
C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 20-Apr-2001										
R;Nierman, W.C.; Feldblum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.B.; Laih, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolon, N.; J.; Brimble, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.										
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-141, 2001										
A;Title: Complete Genome Sequence of Caulobacter crescentus.										
A;Reference number: A87249; MUID:21173698; PMID:11259647										
A;Accession: F87248										
A;Status: preliminary										
A;Molecule type: DNA										
A;Residues: 1-171 <STO>										
A;Cross-references: GB:AE005673; NID:gi13424712; PIDN:AAK25026.1; GSPDB:GN00148										
C;Genetics:										
A;Gene: CC3054										
Qy	1	LDASAL	6							
Db	6	LDASAL	11							
RESULT 5										
E9526										
C;Species: Sinorhizobium meliloti (strain 1021) megaplasmid										
C;Accession: E9526										
C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 30-Sep-2001										
R;Barnett, M.J.; Fisher, R.F.; Jones, T.; Kompp, C.; Abola, A.P.; Barloy-Hubler, F.; Bowe, J.; Kalman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C.										
Nature 406, 959-964, 2000										
A;Title: Complete genome sequence of <i>Pseudomonas aeruginosa</i> PA01, an opportunist										
A;Reference number: A82950; MUID:2043737; PMID:10984043										
Qy	1	LDASAL	6							
Db	118	LDASAL	123							
RESULT 7										
C83635										
C;Species: Pseudomonas aeruginosa (strain PA01)										
C;Accession: C83635										
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2000										
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, A.; Adams, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Latbig, J.; Lory, S.; Olson, M.V.										
Nature 406, 959-964, 2000										
A;Title: Complete genome sequence of <i>Pseudomonas aeruginosa</i> PA01, an opportunist										
A;Reference number: A82950; MUID:2043737; PMID:10984043										

PROC. NATL. ACAD. SCI. U.S.A. 98, 9883-9888, 2001
 A;Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium

A;Reference number: A95262; MUID:21395609; PMID:11481432

A;Accession: E9526

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-230 <KUR>

A;Cross-references: GB:AE006469; PIDN:AAK65175.1; PID:914523620; GSPDB:GN00165

A;Environmental source: strain 1021 megaplasmid PSYMA

R;Galibert, F.; Finan, T.M.; Long, S.R.; Punler, A.; Abola, P.; Ampe, F.; Barloy-

pele, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federspiel, N.A.; Fisher

L.; Hyman, R.W.; Jones, T.

Science 293, 668-672, 2001

A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; L

abe, P.; Vandembroucq, F.J.; Weidner, S.; Wells, D.H.; Wong, K.;

A;Title: The composite genome of the legume symbiont *Sinorhizobium meliloti*.

A;Reference number: A66039; MUID:21368234; PMID:11474104

A;Contents: annotation

C;Genetics:

A;Gene: atrA

A;Genome: plasmid

Query Match 100.0%; Score 26; DB 2; Length 230;

Best Local Similarity 100.0%; Pred. No. 36; Mismatches 0; Indels 0; Gaps 0;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LDASAL 6

Db 83 LDASAL 88

RESULT 6

F69311

conserved hypothetical protein AP0494 - *Archaeoglobus fulgidus*

C;Accession: F69311

C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 21-Jul-2000

R;Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.;

; Fleischmann, R.D.; Quackenbush, J.; Lee, N.H.; Sutton, G.G.; Gill, S.; Kirkinis,

; Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.

Nature 390, 364-370, 1997

A;Authors: Utterback, T.; Cotton, M.D.; Spriggs, T.; Artiach, P.; Kaine, B.P.; S;

Smith, H.O.; Woese, C.R.; Venter, J.C.

A;Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing

A;Reference number: A69250; MUID:98049343; PMID:9389475

A;Accession: F69311

A;Status: preliminary; nucleic acid sequence not shown

A;Molecule type: DNA

A;Residues: 1-259 <KLE>

A;Cross-references: GB:ME001070; GB:AE000782; NID:92689393; PIDN:AA90743.1; PID

C;Superfamily: conserved hypothetical protein MTH682

Query Match 100.0%; Score 26; DB 2; Length 259;

Best Local Similarity 100.0%; Pred. No. 41; Mismatches 0; Indels 0; Gaps 0;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LDASAL 6

Db 149 LDASAL 154

RESULT 7

C83635

hypothetical protein PA0096 [imported] - *Pseudomonas aeruginosa* (strain PA01)

C;Species: *Pseudomonas aeruginosa*

C;Accession: C83635

C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2000

R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey,

; Adamian, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Latbig,

; Lory, S.; Olson, M.V.

Nature 406, 959-964, 2000

A;Title: Complete genome sequence of *Pseudomonas aeruginosa* PA01, an opportunist

A;Reference number: A82950; MUID:2043737; PMID:10984043

RESULT 8

Query Match 100.0%; Score 26; DB 2; Length 281;
 Best Local Similarity 100.0%; Pred. No. 45;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 79 LDASAL 84

A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-281 <STO>
 A;Cross-references: GB:AE004447; GB:AE004091; NID:99945902; PIDN:AA033476.1; GSPDB:GN001
 A;Experimental source: strain PA01
 C;Genetics:
 A;Gene: PA0086

Query Match 100.0%; Score 26; DB 2; Length 281;
 Best Local Similarity 100.0%; Pred. No. 45;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 79 LDASAL 84

T37024 probable DNA-binding regulator - *Streptomyces coelicolor*
 C;Species: *Streptomyces coelicolor*
 C;Date: 03-Dec-1993 #sequence_revision 03-Dec-1999 #text_change 03-Dec-1999
 C;Accession: T37024
 R;Murphy, L.; Harris, D.; Thomson, N.R.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
 submitted to the EMBL Data Library, August 1999
 A;Reference number: Z21619
 A;Accession: T37024
 A;Status: preliminary; translated from GB/EMBL/DDJB
 A;Molecule type: DNA
 A;Residues: 1-334 <MR>
 A;Cross-references: EMBL:Al010989; PIDN:CAB53417.1; GSPDB:GN00070; SCOECDDB:SCUJ12.05C
 A;Experimental source: strain A3(2)
 C;Genetics:
 A;Gene: SCOECDDB:SCUJ12.05C

Query Match 100.0%; Score 26; DB 2; Length 334;
 Best Local Similarity 100.0%; Pred. No. 54;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 139 LDASAL 144

RESULT 9

hypothetical protein AGR_1'2814 [imported] - *Agrobacterium tumefaciens* (strain C58, Cerebriforme, Agrobacterium tumefaciens group) #sequence_revision 22-Oct-2001 #text_change 18-Nov-2002

C;Accession: H98287
 R;Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Quroollo, B.; Goldman, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lapas, C.; Markelz, B.; Science, 294, 2333-2328, 2001
 A;Title: Genome sequence of the Plant Pathogen and Biotechnology Agent *Agrobacterium tumefaciens*
 A;Reference number: A97359; MUID:21608551; PMID:11743194
 A;Accession: H98287
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-333 <KOR>
 A;Cross-references: GB:AE007870; PIDN:AAK89826.1; PID:gi15159760; GSPDB:GN00170
 C;Genetics:
 A;Gene: AGR_L2214
 A;Map position: linear chromosome

Query Match 100.0%; Score 26; DB 2; Length 383;
 Best Local Similarity 100.0%; Pred. No. 63;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 270 LDASAL 275

RESULT 10

hypothetical protein NMA1819 [imported] - *Neisseria meningitidis* (strain MC58) #sequence_revision 31-Mar-2000 #text_change 19-Jan-2001

C;Accession: H81807
 R;Petelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Bischoff, B.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M.; Science, 287, 1809-1815, 2000
 A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.W.; Moxon, E.R.; Rappuoli, R.; Reference number: A81000; MUID:20175755; PMID:10710307
 A;Accession: B81062
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-394 <TEF>
 A;Cross-references: GB:AE002512; GB:AE002098; NID:97226866; PIDN:AAF41972.1; PID:gi15159760
 A;Experimental source: serogroup B, strain MC58
 C;Genetics:
 A;Gene: NMB1620

Query Match 100.0%; Score 26; DB 2; Length 394;
 Best Local Similarity 100.0%; Pred. No. 65;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 365 LDASAL 370

RESULT 12

hypothetical protein Ryv2370c - *Mycobacterium tuberculosis* (strain H37Rv) #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999

C;Accession: A70587
 R;Biosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Holl, Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.; Authors: Squares, R.; Sulston, J.E.; Taylor, K.; Whithead, S.; Barrell, B.G.; Title: Deciphering the biology of *Mycobacterium tuberculosis* from the complete

A;Reference number: A70500; MUID:98295987; PMID:9634230
A;Accession: A70587
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-437 <COL>
A;Cross-references: GB:Z95209; GB:AL123456; NID:93261747; PIDN:CAB08469.1; PID:e315159;
A;Experimental source: strain H37RV
C;Genetics:
A;Gene: Rv2370C

RESULT 13

Query Match 100.0%; Score 26; DB 2; Length 437;
Best Local Similarity 100.0%; Pred. No. 73; Mismatches 0; Indels 0; Gaps 0;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 96 LDASAL 101

RESULT 14

aspartate ammonia-lyase (EC 4.3.1.1) [imported] - *Brucella melitensis* (strain 16M)
A;Species: *Brucella melitensis*
C;Date: 01-Feb-2002 #text_change 15-Feb-2002
C;Accession: A71265
A;Title: The genome sequence of the facultative intracellular pathogen *Brucella melitensis*
PROC. NATL. ACAD. SCI. U.S.A. 99, 443-448, 2002
A;Title: The genome sequence of the facultative intracellular pathogen *Brucella melitensis*
A;Reference number: AD3252; PMID:11756688
A;Accession: A71265
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-483 <KUR>
A;Cross-references: GB:AB008917; PIDN:AAL51291.1; PID:gi17981985; GSPDB:GN00190
A;Experimental source: strain 16M
C;Genetics:
A;Gene: BM10109
A;Map position: T
A;Superfamily: fumurate hydratase
C;Keywords: ammonia-lyase; carbon-nitrogen lyase

Query Match 100.0%; Score 26; DB 2; Length 483;
Best Local Similarity 100.0%; Pred. No. 81; Mismatches 0; Indels 0; Gaps 0;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 452 LDASAL 457

RESULT 15

hypothetical protein AGR_L_2141 [imported] - *Agrobacterium tumefaciens* (strain C5)
A;Species: *Agrobacterium tumefaciens*
C;Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 17-Mar-2003
C;Accession: A96265
A;Gene: AGR_L_2141
A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacter
A;Reference number: A97359; MUID:21608551; PMID:11743194
A;Accession: A96265
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-513 <KUR>
A;Cross-references: GB:AE007870; PIDN:AAK89643.1; PID:gi15159542; GSPDB:GN00170
C;Genetics:
A;Gene: AGR_L_2141
A;Map position: L₂₁₄₁
A;Superfamily: response regulator of the NtrC type; response regulator homology;
C;Superfamily: response regulator of the NtrC type; response regulator homology;
Query Match 100.0%; Score 26; DB 2; Length 513;
Best Local Similarity 100.0%; Pred. No. 87; Mismatches 0; Indels 0; Gaps 0;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 346 LDASAL 351

Search completed: February 18, 2004, 14:38:35
Job time : 8.5921 secs

Query Match 100.0%; Score 26; DB 2; Length 512;
Best Local Similarity 100.0%; Pred. No. 87;

A;Cross-references: GB:AL162756; GB:AU157959; NID:97380091; PIDN:CAB84784.1; PID:gi738019
A;Experimental source: serogroup A, strain Z2491
C;Genetics:
A;Gene: NMA1557

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2004, 14:09:39 ; Search time 17.3684 seconds

(without alignments)

89.145 Million cell updates/sec

Title: US-09-643-260-3

Perfect score: 26

Sequence: 1 LDASAL 6

Scoring table: BLSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 25802604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTRMBLU 23; *
1: sp_archea: *
2: sp_bacteria: *
3: sp_fungi: *
4: sp_human: *
5: sp_invertebrate: *
6: sp_mammal: *
7: sp_mhc: *
8: sp_oxyganelle: *
9: sp_phage: *
10: sp_plant: *
11: sp_rabbit: *
12: sp_virus: *
13: sp_vertebrate: *
14: sp_unclassified: *
15: sp_virus: *
16: sp_bacteriopl: *
17: sp_archeap: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result

* Query Match Length DB ID Description

No.	Score	Match	Length	DB	ID	Description
1	26	100.0	92	10	Q9AS65	Orzsa sativa
2	26	100.0	92	10	P95120	mycobacteri
3	26	100.0	129	2	Q89099	sphingomona
4	26	100.0	130	17	Q9YVS3	sulfolobus
5	26	100.0	130	17	Q9ZNL1	Q9ZNL1 sulfolobus
6	26	100.0	17	Q9ZNL1	Q9ZNL1 sulfolobus	
7	26	100.0	17	Q9A3Y6	Q9A3Y6 caulobacter	
8	26	100.0	174	2	Q8KLX4	Q8KLX4 pseudomonas
9	26	100.0	191	16	Q9KY23	Q9KY23 streptomyce
10	26	100.0	191	16	Q9KY22	Q9KY22 streptomyce
11	26	100.0	191	16	Q8CK50	Q8CK50 streptomyce
12	26	100.0	230	16	Q9ZG8	Q9ZG8 rhizobium m
13	26	100.0	237	10	Q94IZ7	Q94IZ7 oryza sativ
14	26	100.0	245	3	Q8RFU7	Q8RFU7 pneumocysti
15	26	100.0	247	2	Q8CY6	Q8CY6 vibrio para
16	100.0	259	17	17	Q29756	Q29756 archaeoglob
17	16	Q91746	17	17	Q91746 pseudomonas	

17	26	100.0	304	10	Q9ASJ7	Q9ASJ7 oryza sativ
18	26	100.0	334	16	Q9R153	Q9R153 streptomyce
19	26	100.0	349	5	QAVR43	Q9V43 drosophila
20	26	100.0	383	16	Q8UJ4W2	Q8U4W2 agrobacteri
21	26	100.0	394	16	Q9YVE3	Q9YVE3 neisseria m
22	26	100.0	394	16	Q9JR41	Q9JR41 neisseria m
23	26	100.0	420	2	QUL9M3	Q919M3 escherichia
24	26	100.0	437	16	Q05828	Q05828 mycobacteri
25	26	100.0	455	4	Q16S13	Q96S13 homo sapien
26	26	100.0	483	16	Q8VJH4	Q8VJH4 brucella me
27	26	100.0	483	16	Q8PYC6	Q8PYC6 brucella su
28	26	100.0	512	16	Q9JT05	Q9Ju05 neisseria m
29	26	100.0	513	16	Q8U9G4	Q9U9G4 agrobacteri
30	26	100.0	516	16	Q9JZ0B	Q91208 neisseria m
31	26	100.0	580	10	Q9ZS29	Q9ZS29 xanthomonas
32	26	100.0	903	2	Q8VTF1	Q9VTC6 dioscorea
33	26	100.0	903	2	Q9KIQ5	Q9VTF1 bacillus st
34	26	100.0	920	2	Q97366	Q9KIQ5 bacillus st
35	26	100.0	704	4	Q8n24	Q97366 campylobact
36	26	100.0	745	16	Q8nR83	Q97366 corynebacte
37	26	100.0	791	16	Q8P854	Q8P854 kathromonias
38	26	100.0	813	5	Q8V9C6	Q8V9C6 dioscorea
39	26	100.0	903	2	Q8VTF1	Q8VTF1 bacillus st
40	26	100.0	920	2	Q9LT97	Q97366 campylobact
41	26	100.0	941	10	Q9LT97	Q97366 arabidopsis
42	26	100.0	953	10	Q8GZ99	Q8G999 arabidopsis
43	26	100.0	1013	11	Q8IG10	Q8G999 arabidopsis
44	26	100.0	1313	11	Q9BQM9	Q8G999 oryza sativ
45	26	100.0	1313	11	Q9BQM9	Q8G999 rattus norv

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

score >= 92 AA.

ALIGNMENTS

Db	31	LDASAL 36	OC	Spingomonadaceae; Novosphingobium.
			OX	Ncbi_TaxID=48935;
			RN	[1]
			RP	SEQUENCE
			RC	STRAIN=F199;
			RA	Ronine M.F., Stillwell L.C., Wong K.-K., Thurston S.J.J., Sisk E.C.,
			RA	Sensen C.W., Gaasterland T., Saffer J.D., Fredrickson J.K.;
			RT	"Complete sequence of a 184 kb catabolic plasmid from Spingomonas aromaticivorans strain F199."
			RT	Submitted (TUL-199) to the ENBL/GenBank/DBJ databases.
			RL	EMBL; AF079317; AAC039241; -;
			DR	InterPro; IPR007116; PIN.
			DR	Protein; P01050; PIN; 1.
			KW	Hypothetical protein; Plasmid; Signal.
			FT	Signal 1; Plasmid; Potential.
			SQ	SEQUENCE 129 AA; 13287 MW; 9B6F200F1767A297 CRC64;
			QY	Query Match 100.0%; Score 26; DB 2; Length 129; Best Local Similarity 100.0%; Pred. No. 93; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
			Db	6 LDASAL 11
			RN	[1]
			RP	SEQUENCE FROM N.A.
			RC	STRAIN=H37Rv;
			RA	Cole S.T., Broch R., Parkhill J., Garnier T., Churcher C., Harris D., Gordon S.V., Englemeier K., Gebs S., Barry C.E. III, Tekala F., Badcock K., Basham D., Brown D., Chillingworth T., Connor R., Davies R., Devinjo K., Feltwell T., Gentles S., Hamlin N., Holroyd S., Hornsby T., Jageski K., Krogh A., McLean J., Moult S., Murphy L., Oliver S., Osborn J., Quail M.A., Ralston J., Rogers J., Sulston J.E., Taylor K., Whitehead S., Barrell B.G.; RT "Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence.";
			RL	Nature 393:57-544(1998).
			RN	[1]
			RP	SEQUENCE FROM N.A.
			RC	STRAIN=CDC 151 / Oshkosh;
			RA	Fleischmann R.D., Allard D., Eisen J.A., Carpenter L., White O., Peterson J., Debay R., Dodson R.R., Gwinn M., Haft D., Hickey E., Nelson W.C., Unayam L.A., Ermolaeva M., Salzberg S.L., Delcher A., Utterback T., Weidman J., Khouli H., Gill J., Mikula A., Bushnell W.; RT "Whole genome comparison of Mycobacterium tuberculosis clinical and laboratory strains," to the ENBL/genBank/DBJ databases.
			RL	Submitted (APR-2001); DR: 283018; CB053371; ALT-NIT.
			DR	EMLB; AE007126; AAK47379.1; -;
			DR	TIGR; MT302.1; -;
			DR	Tuberculist; RV2975C; -;
			DR	InterPro; IPR01969; Aspartepeptidase site.
			DR	PROSITE; PRO00141; ASP-PROTEASE; T.
			KW	Hypothetical protein; Complete proteome.
			SQ	SEQUENCE 92 AA; 9850 MW; 50BD1AFCFFD253 CRC64;
			QY	Query Match 100.0%; Score 26; DB 16; Length 92; Best Local Similarity 100.0%; Pred. No. 64; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
			Db	16 LDASAL 21
			RESULT 3	
			ID	085909
			AC	PRELIMINARY;
			DT	01-NOV-1998 (TREMBLrel. 08. Created)
			DT	01-Nov-1998 (TREMBLrel. 08, Last sequence update)
			DT	01-OCT-2002 (TREMBLrel. 22, Last annotation update)
			DE	Hypothetical 13.3 kDa protein precursor.
			GN	ORF633.
			OS	Springomonas aromaticivorans.
			OC	Plasmid pNL.
				Bacteria; Proteobacteria; Alphaproteobacteria; Spingomonadales;
			RESULT 4	
			ID	09793
			AC	09793
			DT	01-OCT-2001 (TREMBLrel. 18, Created)
			DT	01-OCT-2001 (TREMBLrel. 18, Last sequence update)
			RL	01-MAR-2003 (TREMBLrel. 23, Last annotation update)
			DR	Hypothetical protein SSO1243.
			GN	SSO1243.
			OS	Sulfolobus sulfataricus.
			OC	Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae; Sulfolobus.
			DR	NCBI_TaxID=2287;
			RN	[1]
			RP	SEQUENCE FROM N.A.
			RC	STRAIN=ATCC 35092 / DSM 1617 / P2;
			RA	MEDLINE-21332296; Published=1427726;
			RA	She Q., Singh R.K., Confalonieri F., Zivanovic Y., Allard G., Awazy M.J., Chan-Weiner C.C.-Y., Clausen I.G., Curtis B.A., De Moors A., Brauso G., Fletcher C., Gordon P.M.K., Heitamp-de Jong T., Jeffries A.C., Kozaera C.J., Medina N., Peng X., Thi-Ngoc H.P., Redder P., Schenk M.B., Therilup C., Tolstrup N., Charles R.L., Doollittle W.F., Dupont M., Gaasterland T., Garrett R.A., Ragan M.A., Sensen C.W., Van der Oost J.; RT "The complete genome of the crenarchaeon Sulfolobus sulfataricus P2."; Proc. Natl. Acad. Sci. U.S.A. 98:7835-7840(2001).
			RL	EMBL; AE06739; AAK4185.1; -;
			DR	InterPro; IPR002716; PIN.
			DR	InterPro; IPR006596; PINC.
			DR	PFAM; PF01850; PIN.1.
			KW	Hypothetical protein; Complete proteome.
			SQ	SEQUENCE 130 AA; 15118 MW; 15F6B4M49;OB9115 CRC64;
			QY	Query Match 100.0%; Score 26; DB 17; Length 130; Best Local Similarity 100.0%; Pred. No. 94; Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
			Db	8 LDASAL 13
			RESULT 5	
			ID	Q96ZNL
			AC	PRELIMINARY;
			QY	1 LDASAL 6
			Db	8 LDASAL 13

DT 01-DEC-2001 (TREMBLrel. 19, Created)
 DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
 DE Hypothetical protein STI801.
 GN STI801.
 OS Sulfolobus tokodaii.
 OC Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae;
 OX NCBI_TaxID=11955;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=JCM 10545 / 7;
 RX PubMed=115249;
 RA Kawarabayashi Y., Hino Y., Horikawa H., Jin-no K., Takahashi M.,
 RA Sekine M., Baba S.-I., Akutsu A., Kosugi H., Hosoya A., Fukui S.,
 RA Nagai Y., Nishizawa K., Otsuka R., Nakaniwa M., Kato Y.,
 RA Yosizawa T., Tanaka T., Kudoh Y., Yamazaki J., Kusuda N., Oguchi A.,
 RA Aoki K.-I., Maruda S., Yanagi M., Nishimura M., Yamagishi A.,
 RT "Complete genome sequence of an aerobic thermoacidophilic
 RT crenarchaeon, Sulfolobus tokodaii strain7.;"
 RL DNA Res. 8(123-140) (2001).
 DR EMBL; AP000987; BAB66893.1; -
 KW Hypothetical protein; Complete proteome.

SQ SEQUENCE 130 AA; 14958 MW;
 Query Match Score 100.0%; Pred. No. 94;
 Best Local Similarity 100.0%;保守性 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Db LDASAL 12

RESULT 6
 Q9A3Y6 PRELIMINARY; PRT; 171 AA.
 AC Q9A3Y6
 DT 01-JUN-2001 (TREMBLrel. 17, Created)
 DT 01-MAR-2001 (TREMBLrel. 17, Last sequence update)
 DB Hypothetical protein CC3064.

OS Caulobacter crescentus.

OC Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacterales;
 OC Caulobacteraceae; Caulobacter.

OX NCBI_TaxID=155892;
 RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=ATCC 19089 / CB15;
 RX MEDLINE=21173698; PubMed=11259647;

RA Neffman M.C., Relphulam T.V., Laub M.T., Paulsen I.T., Nelson K.E.,
 RA Eisen J., Heideberg J.F., Alley M.R.K., Ohta N., Maddock J.R.,
 RA Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., ELY B.,
 RA Debay R.T., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H.,
 RA Kolonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K.,
 RA Utterback T., Tran K., Wolf A., Vamathevan J., Smolotseva M., White O.,
 RA Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.;
 RT "Complete genome sequence of Caulobacter crescentus.;"
 RL Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141 (2001).
 DR EMBL; AB005969; AAC250261.1; -
 DR HSPB; P32173; 185K.
 DR TIGR; CC3064; -
 KW Hypothetical protein; Complete proteome.

SQ SEQUENCE 171 AA; 17046 MW; 7252P45BC2E1CBAC CRC64;

Query Match Score 100.0%; Pred. No. 1.3e+02;保守性 0; Mismatches 0; Indels 0; Gaps 0;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db LDASAL 6

RESULT 7
 Q8KJX4 PRELIMINARY; PRT; 174 AA.

AC Q8KJX4;
 DT 01-OCT-2002 (TREMBLrel. 22, Created)

DT 01-OCT-2002 (TREMBLrel. 23, Last annotation update)
 RN [1]
 DR Rnfb protein.

GN Pseudomonas stutzeri (Pseudomonas perfectomarina);
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
 OC Pseudomonadaceae; Pseudomonas.

AC NCBI_TaxID=316;
 RN [1]
 RP SEQUENCE FROM N.A.

AC SEQUENCE FROM N.A.

DR STRAIN=A15;

RA Desnoes N., Lin M., Guo X., Ma J., Elmerich C.; Blumerich C.;
 RT "Organisation of nif genes in Pseudomonas stutzeri A15, a rice
 endophyte.;"
 RL Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.

DR EMBL; AJ02520; CAD44487.1; -
 DR InterPro; IPRO0150; 4Fe4S_ferrredoxin.

DR Pfam; PF00037; fer4_1.
 DR Pfam; PF04060; fer4_1.
 DR PROSITE; PS00198; 4Fe4S_FERREDOXIN_2.

DR 4Fe4S; Iron; Iron-sulfur. 9524 MW; F7B95DC793FBD9D6 CRC64;

Query Match Score 100.0%; Pred. No. 1.3e+02;保守性 0; Mismatches 0; Indels 0; Gaps 0;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db LDASAL 123

RESULT 8
 Q9KY23 PRELIMINARY; PRT; 191 AA.

AC Q9KY23;
 DT 01-OCT-2000 (TREMBLrel. 15, Created)

DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
 DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)

DB Hypothetical protein SCO2367.

GN SCO2367 OR SCG8A_25C.

OC Streptomyces coelicolor.

OC Bacteria; Actinobacteria; Actinomycetidae; Actinomycetales;

OC Streptomycineae; Streptomycetaceae; Streptomyces.

AC NCBI_TaxID=1902;
 RN [1]
 RP SEQUENCE FROM N.A.

AC SEQUENCE FROM N.A.

DR STRAIN=A3(2);
 RA Bentley S.D., Parkhill J., Barrell B.G., Rajanaratnam M.A.;
 RL Submitted (MAY-2000) to the EMBL/GenBank/DDJB databases.

AC [3]
 RP SEQUENCE FROM N.A.

AC STRAIN=A3(2);
 RX MEDLINE=700051; PubMed=8843436;

RA Redenbach M., Kieser H.M., Denapaitre D., Bichner A., Cullum J.,
 RA Kinoshita H., Hopwood D.A.;

RT "A set of ordered cosmids and a detailed genetic and physical map for
 RT the 8 Mb Streptomyces coelicolor A3(2) chromosome.;"
 RL Mol. Microbiol. 21:77-96(1996);
 RN [4]

OC	Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;	ID	O9HFU7	PRELIMINARY;	PRT;	245 AA.
OC	Rhizobaceae; Sinorhizobium.	AC	O9HFU7			
OX	[1] NCBI_TaxID=392;	DT	01-MAR-2001 (TREMBLrel. 16, Created)			
RN	SEQUENCE FROM N.A.	DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)			
RC	STRAN=021;	DT	01-MAR-2001 (TREMBLrel. 16, Last annotation update)			
RX		DE	Ornithine decarboxylase antizyme.			
RA	MEDLINE:2139509; PubMed=11481432;	GN				
RA	Barnett M.J., Fisher R.F., Jones T., Komp C., Abola A.P.,	OS				
RA	Barrioz-Hubler F., Bowser L., Capela D., Galibert F., Gouzy J.,	OC				
RA	Gurjal M., Hong A., Huijar L., Hyman R.W., Kahn D., Kahn M.I.,	OC				
RA	Kalman S., Keating D.H., Palm C., Peck M.C., Surzycki R., Wells D.H.,	OX				
RA	Yeh K.-C., Davis R.W., Federspiel N.A., Long S.R.;	RN				
RT	"Nucleotide sequence and predicted functions of the entire					
RT	Sinorhizobium meliloti psyma megaplasmid."					
RL	PLoS. Natl. Acad. Sci. U.S.A. 98:9863-9868(2001).					
RL	Proc. Natl. Acad. Sci. U.S.A. 98:9863-9868(2001).					
DR	EMBL; AE007243; AAC6515.1; -.					
DR	InterPro; IPR0054; HTM_GTR.					
DR	PFAM; PF0092; GTR; 1.					
DR	SMART; SM00345; HTM_GTR; 1.					
DR	PROSITE; PS00043; HTM_GTR_FAMILY; 1.					
KW	Plasmid; Complete proteome;					
SQ	SEQUENCE 230 AA; 25843 MW; 82DECAC87E91B94 CRC64;					
Query Match	Score 100.0%; Score 26; DB 16; Length 230;					
Best Local Similarity	100.0%; Pred. No. 1.7e+02;					
Matches	6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
Qy	1 LDASAL 6	Qy	1 LDASAL 6	Score 100.0%; Score 26; DB 3; Length 245;		
Db	83 LDASAL 88	Db	93 LDASAL 98	Best Local Similarity 100.0%; Pred. No. 1.9e+02;		
RESULT 12		Matches	6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Q94IZ7		Query Match	Score 100.0%; Score 26; DB 16; Length 230;			
PRIMERARY;	PRT; 237 AA.	Best Local Similarity	100.0%; Pred. No. 1.7e+02;			
AC	Q94IZ7;	Matches	6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
DT	01-DEC-2001 (TREMBLrel. 19, Created)	Qy	1 LDASAL 6	Score 100.0%; Score 26; DB 3; Length 245;		
DT	01-DEC-2001 (TREMBLrel. 19, Last sequence update)	Db	93 LDASAL 98	Best Local Similarity 100.0%; Pred. No. 1.9e+02;		
DT	01-MAR-2003 (TREMBLrel. 23, Last annotation update)					
DT	OSUNIAb0038J17.13 protein.					
DE	OSUNIAb0038J17.13					
OS	Oryza sativa (Rice).					
OC	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;					
OC	Spermatophytina; Magnoliophyta; Liliopsida; Poales; Poaceae;					
OC	Oryzeae; Oryzae; Oryza.					
OX	NCBI_TaxID=4550;					
RN	[1]					
RN	SEQUENCE FROM N.A.					
RC	STRAIN=CV_Nipponbare;					
RA	Sasaki T., Matsumoto T., Yamamoto K.;					
RT	Oryza sativa nippobare (GA3) genomic DNA, chromosome 1, BAC					
RT	Clone:OSUNIAb0038J17.1;" to the EMBL/GenBank/DDBJ databases.					
RL	-1 SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.					
CC	Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.					
DR	EMBL; AP003104; BA55721.1; -.					
DR	Gramene; Q94IZ7; -.					
DR	InterPro; IPR001841; Znf_ring.					
DR	PFAM; PF00097; zf-C3HC4; 1.					
DR	SMART; SM00184; RING; 1.					
DR	PROSITE; PSS0089; ZP_RING_2; 1.					
KW	Metal-binding; Zinc; Zinc-finger.					
SQ	SEQUENCE 237 AA; 23871 MW;					
Query Match	Score 100.0%; Score 26; DB 10; Length 237;					
Best Local Similarity	100.0%; Pred. No. 1.8e+02;					
Matches	6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
Qy	1 LDASAL 6	Query Match	Score 100.0%; Score 26; DB 2; Length 247;			
Db	91 LDASAL 96	Best Local Similarity	100.0%; Pred. No. 1.9e+02;			
RESULT 13		Matches	6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Q9HFU7		Qy	1 LDASAL 6	Score 100.0%; Score 26; DB 2; Length 247;		
PRELIMINARY;	PRT; 259 AA.	Db	210 LDASAL 215	Best Local Similarity	100.0%; Pred. No. 1.9e+02;	
AC	O29756					
ID	O29756					
AC	O29756;					
DT	01-JAN-1998 (TREMBLrel. 05, Created)					

DT 01-JAN-1998 (TREMBLrefl. 05, last sequence update)
 DT 01-JUN-2002 (TREMBLrefl. 21, last annotation update)
 DE Hypothetical protein AF0494.
 GN AF0494.
 OS Archaeoglobus fulgidus.
 OC Archaea; Eurarchaeota; Archaeoglobi; Archaeoglobales;
 OC Archaeoglobaceae; Archaeoglobus.
 OX NCBI_TAXID=2234;
 RN [1];
 RP SEQUENCE FROM N.A.
 RC STRAIN=VE-16 / DSM 4304 / ATCC 49558;
 RX MEDLINE=98049343; PubMed=9339475;
 RA Klenk H.-P., Clayton R.A., Tomb J.-F., White O., Nelson K.E.,
 RA Ketchum K.A., Dodson R.J., Grinn M., Hickman E.K., Peterson J.D.,
 RA Richardson D.L., Kerlavage A.R., Graham D.B., Kyrpides N.C.,
 RA Fleischmann R.D., Quackenbush J., Lee N.H., Sutton G.G., Gill S.,
 RA Kirkness E.F., Dougherty K., McKenney K., Adams M.D., Loftus B.,
 RA Peterson S., Reich C.I., McNeil L.K., Badger J.H., Glodek A., Zhou L.,
 RA Overbeek R., Gocayne J.D., Weidman J.F., McDonald L., Utterback T.,
 RA Cotton M.D., Spriggs T., Artlach P., Kaine B.P., Sykes S.M.,
 RA Sadow P.W., Andreae K.P., Bowman C., Fujii C., Garland S.A.,
 RA Mason T.M., Olsen G.J., Fraser C.M., Smith H.O., Woese C.R.,
 RA Venter J.C.;
 RT "The complete genome sequence of the hyperthermophilic, sulphate-
 reducing archaeon Archaeoglobus fulgidus.";
 RL Nature 390:364-370(1997).
 DR EMBL; AE001070; AA090743.1; -.
 DR TIGR; AF0494; -.
 DR InterPro; IPR001247; 3_ExorNase.
 DR Pfam; PF01138; RNase_PH; 1.
 DR Pfam; PF03725; RNase_PH_C; 1.
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 259 AA; 28646 MW; EB289D46FP9DCCB3 CRC64;
 Query Match 100.0%; Score 26; DB 17; Length 259;
 Best Local Similarity 100.0%; Pred. No. 24+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QV 1 IDASAL 6
 Db 149 IDASAL 154

Search completed: February 18, 2004, 14:35:37
 Job time : 20.3684 secs

				Gencore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.
				OM protein - protein search, using sw model
				Run on: February 18, 2004, 13:37:19 ; Search time 22.7763 seconds (without alignments) 41.814 Million cell updates/sec
Title:	US-09-643-260-3			
Perfect score:	25			
Sequence:	1 LDASAL 6			
Scoring table:	BLOSUM62			
Searched:	1107863 seqs, 158726573 residues			
Total number of hits satisfying chosen parameters:	1107863			
Minimum DB seq length:	0			
Maximum DB seq length:	2000000000			
Post-processing:	Minimum Match 0% Maximum Match 100% Listing first 45 summaries			
Database :				
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2: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1981.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1980.DAT;*
3: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1982.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1981.DAT;*
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7: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1986.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1985.DAT;*
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13: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1992.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1991.DAT;*
14: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1993.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1992.DAT;*
15: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1994.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1993.DAT;*
16: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1995.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1994.DAT;*
17: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1996.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1995.DAT;*
18: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1997.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1996.DAT;*
19: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1998.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1997.DAT;*
20: /SIBS1/gcadata/geneseq/geneseq-emb1/AA1999.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA1998.DAT;*
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22: /SIBS1/gcadata/geneseq/geneseq-emb1/AA2001.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA2000.DAT;*
23: /SIBS1/gcadata/geneseq/geneseq-emb1/AA2002.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA2001.DAT;*
24: /SIBS1/gcadata/geneseq/geneseq-emb1/AA2003.DAT;*				/SIBS1/gcadata/geneseq/geneseq-emb1/AA2002.DAT;*
				RESULT 1
ID	ABB08726			Mutated IKKbeta standard; peptide: 6 AA.
AC	ABB08726;			
DT	14-JUN-2002			(first entry)
XX				
DE				Mutated IKKbeta NEMO binding domain peptide SEQ ID NO 3.
XX				
KW				IKKbeta; IKKalpha; NEMO; NEMO binding domain; NBD; NF-kappaB; NF-kB; kinase activation; leukocyte; inflammation; B-selectin; osteoclast; autoimmune disease; transplant rejection; osteoporosis; cancer; Alzheimer's disease; viral; infection; asthma; anaphylaxis; psoriasis; rheumatoid arthritis; Crohn's disease; multiple sclerosis; HIV; corticosteroid; immunosuppression; anti-inflammatory; immunosuppressive; osteoprotective; cytosolic; nociceptor; neuroprotective; anti-HIV; human; osteoprotective; cytotoxic; virucide; anti-inflammatory; anti-allergic; antiarthritic; dermatological; antibacterial; antipsoriatic; anti-thrombotic; antiulcer; mutant; mutagen.
KW				
XX				Homo sapiens.
OS				Synthetic.
KEY				Location/Qualifiers
FT				Misc-difference 3 /note= "Wildtype Trp substituted by Ala"
FT				Misc-difference 5 /note= "Wildtype Trp substituted by Ala"
FT				
XX				PN W0200183547-A2.
XX				

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	26	100.0	6 23 ABB08726	Mutated IKKbeta NE NBD mutant peptide Human NEMO binding Mutated IKKbeta NE NBD peptide SEQ ID Human mutant NEMO Mycobacterium spec Mycobacterium spec Mycobacterium spec
2	26	100.0	6 23 ABB08726	
3	26	100.0	6 24 ABB08741	
4	26	100.0	28 ABB08742	
5	26	100.0	28 ABB08743	
6	26	100.0	28 ABB08745	
7	26	100.0	89 ABB04947	
8	26	100.0	92 ABB04947	
9	26	100.0	102 ABB04951	

PD 08-NOV-2001.
 XX
 PP 02-MAY-2001; 2001WO-US40654.
 XX
 PR 02-MAY-2000; 2000US-201261P.
 XX
 PR 22-AUG-2000; 2000US-0643260.
 PA (UYYA) UNIV YALE.
 XX
 PI May MJ, Ghosh S;
 XX
 DR WPI; 2002-179350/23.
 XX
 PT Modulating NF-kappaB induction in a cell, useful for treating e.g. inflammatory disorders, osteoporosis and cancer, comprises contacting a cell with an anti-inflammatory compound comprising at least one NEMO PT binding domain -
 XX
 PS Claim 23; Page 44; 82PP; English.
 XX
 CC The invention relates to modulating NF-kappaB (NF- κ B) induction in a cell
 CC comprises contacting a cell with an anti-inflammatory compound
 CC (ABB08725- ABB08742) comprising at least one NEMO binding domain
 CC (ABB0873-731). The compound has acts through selective inhibition of
 CC cytokine-mediated NF- κ B activation by blocking the interaction of NEMO
 CC with IKKbeta at the NEMO binding domain. Blockage of IKKbeta-NEMO
 CC interaction results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compound may also
 act (directly or indirectly) by blocking the recruitment of leukocytes
 CC into sites of acute and chronic inflammation, by down-regulating the
 expression of E-selectin on leukocytes or by blocking osteoclast
 CC differentiation. The compound is useful in treating NF- κ B mediated
 CC conditions, where the condition is an inflammatory disorder, an
 CC autoimmune disease, transplant rejection, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, a viral infection or ataxia,
 CC telangiectasia. The inflammatory disorder is asthma, allergies,
 CC urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis,
 CC rheumatoïd arthritis, osteoarthritis, psoriatic arthritis, inflammatory
 CC bowel disease, chronic obstructive pulmonary disease, vasculitis and
 CC bursitis. The inflammatory disorder may also be dermatitis, eczema,
 CC psoriasis, osteoarthritis, psoriatic arthritis, lupus and
 CC spondyloarthritis. Also for Crohn's disease, ulcerative colitis,
 CC polymyalgia, scleroderma, Wegener's granulomatosis, temporal arteritis,
 CC cryoglobulinaemia or multiple sclerosis. For chronic viral infections
 CC caused by Epstein-Barr, cytomegalovirus or herpes simplex. Other viral
 CC diseases include HIV and influenza. The compound may also be useful for
 CC treating anaphylaxis, drug and food sensitivity, contact dermatitis, in
 CC sunburn or aging. The compound may be used to replace corticosteroids in
 CC any application in which corticosteroids are used, including
 CC immunosuppression in transplants and cancer therapy. Also for identifying
 CC antiinflammatory compounds and for diagnosis of an inflammatory disorder.
 CC The compound may be administered alone or in combination with other known
 CC anti-inflammatory agents. The present sequence is that of a mutated NEMO
 CC binding domain of IKKbeta.
 XX
 Sequence 6 AA;

Query Match 100.0%; Score 26; DB 23; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e-05; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IDASAL 6
 ID 1 IDASAL 6
 Db 1 IDASAL 6

RESULT 2
 AAM4850B
 ID AAM4850B standard; Peptide; 6 AA.
 XX
 AC AAM4850B;
 XX
 DT 20-MAR-2002 (first entry)

XX
 NBD mutant peptide SEQ ID NO 3.
 DE
 XX
 KW Antiinflammatory; antiasthmatic; cytoprotective; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; viricide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NIKappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 OS Synthetic.
 XX
 PN WO200103554-A2.

PD 08-NOV-2001.
 XX
 PF 02-MAY-2001; 2001WO-US14346.
 XX
 PR 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 PA (PRAEBS) PHARM INC.
 PA (UYYA) UNIV YALE.
 XX
 PI May MJ, Ghosh S, Findeis MA, Phillips K;
 DR WPI; 2002-121889/16.
 XX
 PT Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappa_B activation, and for treating asthma, lung inflammation,
 PT psoriasis.
 XX
 PS Example 6; Page 47; 82PP; English.
 XX
 CC The invention relates to an antiinflammatory compound (especially
 CC (AM48628-AMM48645), comprising a membrane translocation domain
 CC (AM48620-AMM48627 or AMM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AM48528-AMM48619). The antiinflammatory compounds have antiasthmatic,
 CC cytoprotective, antipsoriatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC nootropic, antiatherosclerotic, viricide and antiallergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NIKappaB
 CC activation by blocking interaction of IKappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC burritis, autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia.
 CC pro-inflammatory responses such as allergies, dermatitis, sunburn, aging and
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 XX
 Sequence 6 AA;

Query Match 100.0%; Score 26; DB 23; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e-05; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 IDASAL 6
 ID 1 IDASAL 6
 Db 1 IDASAL 6

RESULT 3

CC cryoglobulinemia or multiple sclerosis. For chronic viral infections
 CC caused by Epstein-Barr, cytomegalovirus or herpes simplex. Other viral
 CC diseases include HIV and influenza. The compound may also be useful for
 CC treating anaphylaxis, drug and food sensitivities, contact dermatitis,
 CC sunburn or aging. The compound may be used to replace corticosteroids in
 CC any application in which corticosteroids are used, including
 CC immunosuppression in transplants and cancer therapy. Also for identifying
 CC antiinflammatory compounds and for diagnosis of an inflammatory disorder.
 CC The compound may be administered alone or in combination with other known
 CC anti-inflammatory agents. The present sequence is that of a mutated NEMO
 CC binding domain of IKKbeta.
 XX SQ Sequence 28 AA;

Query Match 100.0%; Score 26; DB 23; Length 28;
 Best local Similarity 100.0%; Pred. No. 19; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; NEMO binding domain 0;

Qy 1 LDASAL 6
 DB 20 LDASAL 25

RESULT 5
 AAM45524
 ID AAM48524 standard; Peptide: 28 AA.
 XX
 AC AAM48524;
 XX DT 20-MAR-2002 (first entry)
 XX DE NBD peptide SEQ ID NO 19.
 XX KW Antiinflammatory; antiasthmatic; cytoprotective; antipsoriatic; nontropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immuno-suppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW anti-allergic; membrane translocation domain; NEMO binding domain; eczema;
 KW Cytokine; NrkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW autoimmune disorder; osteoarthritis; inflammatory bowel disease;
 KW autoimmunity disorder; multiple sclerosis; transplant rejection;
 KW ataxia telangiectasia; allergy; anaphylaxis; viral infection;
 KW OS Synthetic.
 XX PN WO200183554-A2.
 XX PD 08-NOV-2001.
 XX OS 02-MAY-2001; 2001WO-US14346.
 XX PR 02-MAY-2000; 2000US-20161P.
 PR 22-AUG-2000; 2000US-0642260.
 XX PA (PRAE-) PRACTIS PHARM INC.
 PA (UTYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WFI; 2002-121889/16.

XX Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to a NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT peoriasis -
 XX PS Example 5; Fig 5; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially
 CC to AAM4628-AAM4865), comprising a membrane translocation domain
 CC (AAM4820-AAM4867 or AAM8646-AAM4851) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic,

CC cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopatric,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC nocropic, antiatherosclerotic, virucide and antiilemic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g., asthma,
 CC lung inflammation or cancer, rheumatoid arthritis, osteoarthritis,
 CC osteobrthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC granulomatosis, multiple sclerosis, transplant rejection, osteoporosis;
 CC Alzheimer's disease, atherosclerosis, viral infections; and ataxia,
 CC telangiectasia. The compounds are also useful for treating
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.

Query Match 100.0%; Score 26; DB 23; Length 28;
 Best local Similarity 100.0%; Pred. No. 19; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; NEMO binding domain 0;

Qy 1 LDASAL 6
 DB 20 LDASAL 25

RESULT 6
 ABU08435

ID ABU08435 standard; peptide: 28 AA.
 XX DE Human mutant NEMO binding site (NBD) peptide.

KW Human; antiinflammatory compound; NEMO binding domain; NBD; IKKbeta;
 KW IkappaB kinase-beta; IkappaB kinase-alpha; IKKalpha; NF-kappaB;
 KW nuclear factor-kappaB induction; inflammatory disorder;
 KW autoimmune disease; osteoporosis; cancer; Alzheimer's disease;
 KW atherosclerosis; viral infection; Ataxia telangiectasia;
 KW transplantation detection; immunosuppressive; osteopathic;
 KW cytoprotective; nontropic; neuroprotective; antiatherosclerotic; virucide;
 KW vasotropic; antiinflammatory; antiarthritic; mutant; mutein.
 XX OS Homo sapiens.
 OS Synthetic.
 XX PN US2002156000-A1.
 XX PR 24-OCT-2002.
 PA 02-MAY-2001; 2001US-0847940.
 XX PR 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 XX PA (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PI May MJ, Ghosh S;
 XX DR WPI; 2003-209142/20.

XX Novel antiinflammatory peptide compounds comprising NEMO binding
 PT domain, useful for modulating NF-kappaB induction in a cell and for
 PT treating NF-kappaB-mediated inflammation disorders e.g., asthma,
 PT psoriasis, vasculitis -
 XX Claim 22; Fig 5A; 47pp; English.

SQ	Sequence	84 AA;	Score	100.0%	DB	26;	Length	84;
	Query Match		Best Local Similarity	100.0%	Pred.	No.	Indels	Gaps
QY	Matches	6;	Conservative	0;	Mismatches	0;	0;	0;
SQ	Sequence	28 AA;	Score	26;	DB	24;	Length	28;
QY	Best Local Similarity	100.0%;	Pred.	No.	19;	;	Indels	Gaps
Db	Matches	6;	Conservative	0;	Mismatches	0;	0;	0;
QY	1	LDASAL 6						
Db	20	LDASAL 25						
RESULT	7							
ID	AY04950	standard; Protein; 84 AA.						
AC	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41A.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
XX								
OS	Mycobacterium sp.							
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PN	WO9909186-A2.							
XX								
PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
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PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41D.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41E.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41F.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
XX								
PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41G.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
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XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41H.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
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PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41I.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
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PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41J.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
XX								
PD	25-FEB-1999.							
XX								
PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41K.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
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PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41L.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
XX								
PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41M.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
XX								
PD	25-FEB-1999.							
XX								
PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41N.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
XX								
PD	25-FEB-1999.							
XX								
PF	AY04950 standard; Protein; 84 AA.							
XX								
PR	AY04950;							
XX								
DT	06-JUL-1999	(first entry)						
XX								
DE	Mycobacterium species protein sequence 41O.							
XX								
KW	Secreted protein; Mycobacterium; primer; PCR; amplification; probe;							
KW	hybridisation; detection; vaccine; immunisation; infection.							
OS	Mycobacterium sp.							
XX								
PN	WO9909186-A2.							
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PD	25-FEB-1999.							
XX								
PF	AY04950 standard; Protein; 84 AA.							
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DT 06-JUL-1999 (first entry)
 XX DB Mycobacterium species protein sequence 41F.
 XX KW Secreted Protein; Mycobacterium; primer; PCR; amplification; probe;
 KW hybridisation; detection; vaccine; immunisation; infection.
 OS XX Mycobacterium sp.
 XX PN WO9909186-A2.
 XX PD 25-FEB-1999.
 XX PP 14-AUG-1998; 98WO-FR01013.
 XX PR 11-SEP-1997; 97FR-0011325.
 XX PR 14-AUG-1997; 97FR-0010404.
 PA (INSP) INST PASTEUR.
 XX PT Giacquel B, Lim EM, Pelicic V, Portnoi D, Goguet de la Salmoniere Y;
 PT Guigueno A,
 XX DR WPI; 1999-181045/15.
 DR N-PSB; AAY34204.
 XX PS Claim 32; Fig 41F; 30pp; French.
 XX CC PT Mycobacterial DNA vectors containing reporter constructs - for
 PT identifying coding or promoter sequences involved in
 infection-associated protein expression.
 XX PS Sequences AAY0742-Y05000 and AAY07201-Y07204 represent secreted
 CC proteins from various Mycobacterium species microorganisms. The
 CC encoding nucleotide sequences can be used as primers and probes for
 methods for detecting and identifying mycobacteria, especially belonging
 to the M. tuberculosis complex. The encoded proteins can be used in
 CC vaccines for immunisation against a bacterial or viral infection.
 XX SQ Sequence 102 AA;

Query Match 100.0%; Score 26; DB 20; Length 102;
 Best Local Similarity 100.0%; Prod. No. 82;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LDASAL 6
 Db 26 LDASAL 31

RESULT 10
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 XX AC AAG35536;
 XX DT 18-OCT-2000 (first entry)
 XX DB Arabidopsis thaliana protein fragment SEQ ID NO: 43425.
 XX KW Protein identification; signal transduction pathway; metabolic pathway;
 KW hybridisation assay; genetic mapping; gene expression control; promoter;
 KW termination sequence.
 OS XX Arabidopsis thaliana.
 XX PN EP1033405-A2.
 XX PD 06-SEP-2000.
 XX PR 25-FEB-2000; 2000EP-0301439.
 PR 25-FEB-1999; 99US-0121825.

PR 05-MAR-1999; 99US-0123180.
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 PR 23-MAR-1999; 99US-0125788.
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 PR 29-SEP-1999; 99US-0156596.
 PR 29-OCT-1999; 99US-0157117.

PR 05-OCT-1999; 99US-0157753.
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Query Match Similarity 100 %; Score 26; DB 21; Length 102;

Best Local Matches 6; Conservative 0; Mismatches 0; Inlays 0; Gaps 0;

Qy	1 LDASAL 6
Db	63 LDASAL 68

RESULT 11

ID AAC01907 standard; Protein; 138 AA.

AC AAC01907;

DT 06-NOV-2001 (first entry)

DE Human polypeptide SEQ ID NO 15799.

XX Human; cytokine; cell proliferation; gene therapy; cell differentiation; haematopoiesis; tissue growth factor; immunomodulatory; cancer; leukaemia; KW vaccine; peptide therapy; stem cell growth factor; KW nervous system disorders; arthritis; inflammation. Homo sapiens.

XX WO200164835-A2.

XX PD 07-SEP-2001.

XX PF 26-FEB-2001; 2001-WO-US04927.

XX PR 28-FEB-2000; 2000US-051526.

XX PR 18-MAY-2000; 2000US-0577409.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Liu C, Dumanac RT;

XX

DR WPI; 2001-514839/56.
 DR N-PSDB; AA181838.

XX DR
 PT Isolated nucleic acids and polypeptides, useful for preventing
 PT diagnosing and treating e.g. leukaemia, inflammation and immune
 PT disorders -

XX PS Claim 20; SEQ ID NO 15799; 1399pp + sequence listing; English.

XX The invention relates to human polynucleotides (AA179941-AA193641) and
 CC the encoded proteins (AA00010-AA01910) that exhibit activity relating to
 CC cytokine, cell proliferation or cell differentiation or which may induce
 CC production of other cytokines in other cell populations. The
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
 CC peptide therapy. The polypeptides have various cytokine-like activities,
 CC e.g. stem cell growth factor activity, hematopoiesis regulating
 CC activity, tissue growth factor activity, immunomodulatory activity and
 CC activin/inhibin activity and may be useful in the diagnosis and/or
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
 CC inflammation.

Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp://wipo.int/pub/published_pct_sequences.

XX Sequence 138 AA:

Query Match	Score	Length	DB	Best Local Similarity	Prod. No.	Mismatches	Indels	Gaps
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Db	54	LDA5AL	59					

RESULT 12

ID	Sequence
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XX	
DT	18-OCT-2000 (first entry)
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DE	Arabidopsis thaliana protein fragment SEQ ID NO: 43424.
XX	
XW	Protein identification; signal transduction pathway; metabolic pathway;
RW	hybridisation assay; genetic mapping; gene expression control; promoter;
KW	termination sequence;
XX	
OS	Arabidopsis thaliana.
XX	
PN	EP1033405-A2.
XX	
PD	06-SEP-2000.
XX	
PF	25-FEB-2000; 2000EP-0301439.
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PR	05-MAR-1999; 99US-0121025.
PR	09-MAR-1999; 99US-0123180.
PR	23-MAR-1999; 99US-0123548.
PR	23-MAR-1999; 99US-0125088.
PR	23-MAR-1999; 99US-0126244.
PR	29-MAR-1999; 99US-0126785.
PR	01-APR-1999; 99US-0127452.
PR	06-APR-1999; 99US-0128234.
PR	08-APR-1999; 99US-0128714.
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PR	19-APR-1999; 99US-0130077.
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PR	23-APR-1999; 99US-0130510.
PR	28-APR-1999; 99US-0130891.
PR	30-APR-1999; 99US-0131449.

PR 30-APR-1999; 99US-0132484.
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RESULT 13
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ID AAG35534 Standard; Protein; 160 AA.

AC AAG35534;

XX DT 18-OCT-2000 (first entry)

XX DE Arabidopsis thaliana protein fragment SEQ ID NO: 43423.

KW Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.

KW OS Arabidopsis thaliana.

XX PN EP1033405-A2.

XX PD 06-SEP-2000.

XX PF 25-FEB-2000; 2000EP-0301439.

PR 25-FEB-1999; 99US-0121825.

PR 05-MAR-1999; 99US-0122180.

PR 09-MAR-1999; 99US-0123548.

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PR 29-MAR-1999; 99US-0127785.

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PR	29-JUN-1999;	99US-0140991.	PR	13-SEP-1999;	99US-0153758.
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PR	06-JUL-1999;	99US-0142390.	PR	24-SEP-1999;	99US-0155559.
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Db	121 LDASAL 126

RESULT 14

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 ID AAG90584 standard; Protein; 240 AA.
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 AC AAG90584;
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DT 26-SEP-2001 (first entry)

XX C glutamicum protein fragment SEQ ID NO: 4338.

DE Coryneform bacterium; amino acid synthesis; vitamin; saccharide; organic acid synthesis.

XX OS Corynebacterium glutamicum.

OS Corynebacterium glutamicum.

XX PN BP1108790-A2.

XX PD 20-JUN-2001.

XX PR 18-DEC-2000; 2000EP-0127688.

XX PR 16-DEC-1999; 99JP-0377484.

PR 07-APR-2000; 2000JP-0159162.

PR 03-AUG-2000; 2000JP-0280988.

XX PA (KION) KYOWA HAKKO KOGYO KK.

XX PI Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochiai K, Yokoi H;

PI Tateishi N, Senoh A, Ikeda M, Ozaki A;

XX WPI; 2001-376931/40.

DR N-PSB; AAH65803.

XX PS Claim 17; SEQ ID NO: 4338; 246pp + Sequence Listing; English.

PT Novel polynucleotides derived from Coryneform bacteria, for identifying mutation point of a gene, measuring expression of a gene, analysing expression profile or pattern of a gene and identifying homologous gene

PT -

XX

CC The present invention provides a number of nucleotide and protein sequences from the Coryneform bacterium Corynebacterium glutamicum. These sequences are useful for identifying the mutation point of a gene derived from a mutant of coryneform bacterium, measuring expression amount and analysing the expression profile or expression pattern of a gene derived from Coryneform bacterium, and identifying a homologue of a gene derived from coryneform bacterium. Coryneform bacteria are useful for producing amino acids, nucleic acids, vitamins, saccharides and organic acids, particularly L-lysine. The present sequence is a protein described in the exemplification of the invention.

CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the

CC European Patent Office.

SQ Sequence 240 AA;

Query Match 100.0%; Score 26; DB 22; Length 240;
 Best Local Similarity 100.0%; Pred. No. 2.1e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 0; MisMatches 0;

QY	1 LDASAL 6
Db	70 LDASAL 75

RESULT 15

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 ID AAG51025 standard; Protein; 271 AA.
 XX
 AC AAG51025;

XX DT 18-OCT-2000 (first entry)

XX DB Arabidopsis thaliana protein fragment SEQ ID NO: 64719.

XX Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; terminatin sequence.

XX OS Arabidopsis thaliana.

XX PN EP1033405-A2.

XX PD 06-SEP-2000.

XX PR 25-FEB-2000; 2000EP-0301439.

XX PR 25-FEB-1999; 99US-0121825.

PR 05-MAR-1999; 99US-0123180.

PR 09-MAR-1999; 99US-0123548.

PR 23-MAR-1999; 99US-0125788.

PR 25-MAR-1999; 99US-0126764.

PR 29-MAR-1999; 99US-0126785.

PR 01-APR-1999; 99US-0127452.

PR 06-APR-1999; 99US-0128234.

PR 08-APR-1999; 99US-0128714.

PR 16-APR-1999; 99US-0129845.

PR 19-APR-1999; 99US-0130077.

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PR 23-APR-1999; 99US-0130510.

PR 23-APR-1999; 99US-0130891.

PR 28-APR-1999; 99US-0131449.

PR 30-APR-1999; 99US-0132048.

PR 30-APR-1999; 99US-0132407.

PR 04-MAY-1999; 99US-0132484.

PR 05-MAY-1999; 99US-0132485.

PR 06-MAY-1999; 99US-0132486.

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PR 11-MAY-1999; 99US-0134256.

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PR 14-MAY-1999; 99US-0134370.

PR 14-MAY-1999; 99US-0134768.

PR 18-MAY-1999; 99US-0134941.

PR 19-MAY-1999; 99US-0134941.

PR 20-MAY-1999; 99US-0135124.

PR 20-MAY-1999; 99US-0135333.

PR 24-MAY-1999; 99US-0135629.

PR 25-MAY-1999; 99US-0136021.

PR 27-MAY-1999; 99US-0136392.

PR 28-MAY-1999; 99US-0136782.

PR 01-JUN-1999; 99US-013722.

PR 03-JUN-1999; 99US-0137528.

PR 04-JUN-1999; 99US-0137502.

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PR	08-JUN-1999;	99US-0138094.	PR	08-AUG-1999;	99US-0147493.
PR	10-JUN-1999;	99US-0138540.	PR	09-AUG-1999;	99US-0147735.
PR	14-JUN-1999;	99US-0138847.	PR	10-AUG-1999;	99US-0148171.
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PR	28-JUL-1999;	99US-0145919.	PR	22-OCT-1999;	99US-0160981.
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